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S.-Y. A. Chang* (chang@math.princeton.edu), Fine Hall, Washington Road, Princeton, NJ 08544, and **H. Fang**, Simonyi Hall, Einstein Drive, Princeton, NJ 08540. *On a class of variational functional in conformal geometry.*

In this talk, I will discuss some recent joint work with Hao Fang in which we study a class of variational functional which, when the manifold is locally conformally flat, is the functional of the integral of the k-th symmetric function of the eigenvalues of the Schouten tensor; and which enjoys the variational property under conformal change of metrics. (Received August 06, 2007)